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ORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: Me 10/0/8, 062

Filing Date: 05/05/2000 First Named Inventor: Beams

Group Art Unit: Star 2/2/ Examiner Name: Are M & HOCM (E.S. Attorney Docket Number: 05222.00183

(Use as many sheets as necessary)

Sheet of 14

_			U.S. PATENT	DOCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant
Initials *	No.	Number - Kind Code ² (if known)	MM-DD-YYYY	Cites Document	Passages or Relevant Figures Appear
MEH		US-4,622,013	11/11/1986	Cherchio	
MEAT		US- 4,874,784	10/17/1989	Clancey	
MBAL		US- 4,981,766	01/02/1990	Derr, et al.	
WBH	ľ	US- 4,931,950	06/05/1990	Isle, et al.	
MSH		US- 4,964,077	10/16/1990	Eisen, et al.	
MIRAT		US- 4,977,529	12/11/1990	Gregg, et al.	
MBA		US- 5,002,491	03/26/1991	Abrahamson, et al.	
MIRAL		US- 5,170,464	12/08/1992	Hayes, et al.	
MEAH		US- 5,189,402	02/23/1993	Naimark, et al.	
AVELL		US- 5,208,745	05/04/1993	Quentin, et al.	
MPAL		US- 5,208,898	05/04/1993	Funabashi, et a	
MBAH		US- 5,239,617	08/24/1993	Gardner, et al.	
MEAH		US- 5,259,766	11/09/1993	Sack et al.	1
WEAL		US- 5,267,865	12/07/1993	Lee, et al.	
MEAL		US- 5,310,349	05/10/1994	Daniels, et al.	
MBAF		US- 5,311,422	05/10/1994	Loftin, et al.	
MEG		US- 5,317,688	05/31/1994	Watson, et al.	
MEAL		US- 5,326,270	07/05/1994	Ostby, et al.	
MEAL		US- 5,359,701	10/25/1994	Chiang, et al.	
MBAL		US- 5,372,507	12/13/1994	Goleh	

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Examiner Cite No.'	0	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,		
	Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>il known</i>)	Date Applica	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶		
MBAF		EP 0 689 132 A2	12/27/95	Laffra			
MELL		EP 0 710 942 A2	05/08/96	Siefert			
MBAL		EP 0 710 942 A2	05/08/96	Siefert			
MBAL		EP 0 798 655 A2	10/01/97	Jervis, et al.			
MIBAL		WO 00/04478	01/27/00	Jonsson			
MBH		WO 97/44766	11/27/97	Cook			
MBA		WO 98/03953	01/29/98	Simmons			
MBAL		WO 98/25251	06/11/98	Но			
MBH	f -	WO 98/32,109	07/23/98	De Lange			

Examiner Signature Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through charion if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)
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粉拌ORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: ples /0/0/8,062

Filling Date: 05/05/2000
First Named Inventor: Beams
Group Art Unit: pdg 2/2

Group Art Unit: Art 2/2/ Examiner Name: Art // HOCM/ES Attorney Docket Number: 05222.00183

(Use as many sheets as necessary)

Sheet 2 of 1

	<u> </u>	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
MBH		"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144	
MURAH		*Automated Exercise Progression in Simulation-Based Training,* IEEE Trans. On Systems, Man, and Cybemetics, Vol. 24(6), pp. 863-74, June 1994	
MBH	\	"ACM Transactions on Information Systems," 1988 at www.acm.org/pubs/toc/Abstracts/tois/59298.html	
MBH		The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success StoOry, 1996.	
MBA		"A Special Section - Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, NovDec. 1994	
MEH		"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, NovDec. 1994	
MBH		'DDD-A Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22- 27	
MIPA		*Automated Training of Legal Reasoning* at http://www.bileta.ac.uk/94papers/muntjew.html	
MARH		"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998	
MBAH		*Developing a Design System into an Intelligent Tutoring System,* Int'l J. Engr. Eud., Vol. 13(5), pp-341-46, Dec. 1997	
MBAH	-	*CAPTOR a model for delivering web based intelligent tutoring system technology*, IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	

Examiner Signature	Date Considered	5/7	105

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¹ Unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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REFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 65 10/018, 062

Filling Date: 05/05/2000 First Named Inventor: Beams

Group Art Unit: pla 2121 Examiner Name: plas Am: HOCM [E.S. Attorney Docket Number: 05222.00183

(Use as many sheets as necessary)

Sheet 3 of 14

Examiner Signature

U.S. PATENT DOCUMENTS							
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant		
tritials *	No.1	Number - Kind Code ² (if known)	MW-DD-YYYY		Passages or Relevant Figures Appear		
MAH	-	US-5,395,243	03/07/1995	Lutbin, et al.			
MEH		US- 5,441,415	08/15/1995	Lee, et al.			
MBAL		US- 5,491,743	02/13/1996	Shilo, et al.			
MEAH	-	US- 5,533,903	07/09/1996	Kennedy			
MBAH		US- 5,535,422	07/09/1996	Chang, et al.			
		US- 5,537,141	07/16/1996	Harper, et al.			
ANBAH-		US- 5,539,869	07/23/1996	Spoto, et al.			
MEAL		US- 5,566,291	10/15/1996	Boulton, et al.			
NBAL		US- 5,576,844	11/19/1996	Anderson, et al.			
XIJEAT		US- 5,577,186	11/19/1996	Mann II, et al.			
MDAL		US- 5,597,312	01/28/1997	Bloom, et al.			
MEAL		US- 5,616,033	04/01/1997	Kerwin			
MIBAL		US- 5,644,686	07/01/1997	Hekmatpour			
MIBAT		US- 5,644,727	07/01/1997	Atkins			
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MIBAL		US- 5,690,496	11/25/1997	Kennedy			
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M BAL		US- 5,701,400	12/23/1997	Amado			
MEAF		US- 5,720,007	02/17/1998	Hekmatpour			
MUBAY		US- 5,727,161	03/10/1998	Purcell, Jr.			

	FOREIGN PATENT DOCUMENTS					
Evaminas	Cito	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	
Examiner Cite Initials* No.	No.'	Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T [©]
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MEORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: ## 10/018, 062

Filing Date: 05/05/2000
First Named Inventor: Beams
Group Art Unit: par. 2/2/

Group Art Unit: n/g 2/2/ Examiner Name: n/a M: HOCM & Attorney Docket Number: 05222.00183

(Use as many sheets as necessary)

Sheet 4 of 14

	,	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
MBA		*Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface, *Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
MBH	-	"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
MBAH		*Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing* at www.calsci.com/Applications.html	
MBA		"KBLPS Overview" at www.cgl.com/CGfWEB/KBLPS/overindex4.html	
MRAL		"Smartlaw: adapting classic expert system techniques for the legal research domain", ACM pp 133-141	
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MAAH	-	*Practical methods for automatically generating typed links*, ACM Hypertext, pp 31-41	
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MBA	···	Teaching Real-World Analysia Skills for Goal-Based Scenario," pp. 68-74	

			<u>. /</u>
Examiner Signature	Sate Considered	5/7	05

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¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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ORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 🖛 101018, 062

Filing Dat : 05/05/2000

First Named Inventor: Beams

Group Art Unit: olde 2/3/ Examiner Name: olde 1/4 HOCM E Attorney Docket Number: 05222.00183

(Use as many sheets as necessary)

	U.S. PATENT DOCUMENTS						
Examiner	Cite	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant		
Initials *	No.1	Number - Kind Code ² (if known)	MARCOPITIT		Figures Appear		
MISH		US-5,727,950	03/17/1998	Cook, et al.			
MBAL		US- 5,745,652	04/28/1998	Bigus			
MRAL		US- 5,772,446	06/30/1998	Rosen			
MAH		US- 5,779,468	07/14/1998	Ho, et al.			
MBAL		US- 5,788,508	08/04/1998	Lee, et al.			
MBAL		US- 5,791,907	08/11/1998	Ramshaw, et al.			
MBAH		US- 5,799,151	08/25/1998	Hoffer			
MIRAY		US- 5,799,292	08/25/1998	Hekmatpour			
MBAL		US- 5,806,056	09/08/1998	Hekmatpour			
MICH		US- 5,810,747	09/22/1998	Brudney, et al.			
MUBAL		US- 5,822,745	10/13/1998	Hekmatpour			
MEAF		US- 5,823,781	10/20/1998	Hitchcock, et al.			
MEAL		US- 5,823,788	10/20/1998	Lemelson, et al.			
MBAL		US- 5,835,683	11/10/1998	Corella, et al.			
MILBAL		US- 5,868,575	02/09/1999	Kuczewski			
MRAL		US- 5,870,768	02/09/1999	Hekmatpour			
MEAL		US- 5,875,437	02/23/1999	Atkins			
MIDAL		US- 5,889,845	03/30/1999	Staples, et al.			
MEAT		US- 5,893,123	04/06/1999	Tuinenga			
MEH		US- 5,911,581	06/15/1999	Knight Jeremy, et al.			

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_		Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,		
Examiner Initials*	Cite No.1	Country Code ³ - Number ⁴ · Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶	
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Examiner Signature	Date Considered	5/7/05	

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TRMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: Mrs. 10/0/8,062

Filing Dat : 05/05/2000 First Named Inventor: Beams

Group Art Unit: n/a-Examiner Name: n/e=

Attorney Docket Number: 05222.00183

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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
MEA		*Artificial Intelligence and Mathematics Education* at http://www.rand.org/hot/mcarthur/Papers/aied.html	
MBH		"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at http://www.nib.unicamp.br/recursoseducation/intelligent-tutoring.html	
MBA.		"WITS: A Reusable Architecture for a VR-Based ITS' at http://advleam.lrdc.pitt.edu/its-arch/papers/tam.html	
TO THE STATE OF TH		"Brainmaker" at www.npiec.on.ca/~echoscan/28-04.htm	
NEH		"News for ESAP" at www.hops.wharton.upenn.edu/~esap/news.html	
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Examiner Signature	AMULUIII	D'ARUII	Date Considered	17	105

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: ### PO/O/K, 662

Filing Date: 05/05/2000 First Named Inventor: Beams

Group Art Unit: n/ar 2(2) Examiner Name: n/a // LHC/MFE S Attorney Docket Number: 05222.00183

(Use as many sheets as necessary)

			U.S. PATENT		
Examiner Cite No.1	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan
		Number - Kind Code ² (if known)	MM-DD-YYYY		Passages or Relevant Figures Appear
MBA		US-5,974,446	10/26/1999	Sonnenreich, et al.	
MBA+		US- 5,987,443	11/16/1999	Nichols, et al.	
MEBAL		US- 6,003,021	12/14/1999	Zadik, et al.	
MEAL		US- 6,015,348	01/8/2000	Lambright, et al.	
MBAH		US- 6,016,486	01/18/2000	Nichals	
MIZAF		US- 6,018,730	01/25/2000	Nichols, et al.	
MBAL		US- 6,018,731	01/25/2000	Bertrand, et al.	
MEAL		US- 6,018,732	01/25/2000	Bertrand, et al.	
MEAL		US- 6,023,691	02/08/2000	Bertrand et al.	
MRAL		US- 6,023,692	02/08/2000	Nichols	
NEAL		US- 6,026,386	02/15/2000	Lannert, et al.	
MBAL		US- 6,029,156	02/22/2000	Lannert, et al.	
MEAH		US- 6,029,158	02/22/2000	Bertrand, et al.	
MEAL		US- 6,029,159	02/22/2000	Zorba, et al.	
MUBAL		US- 6,032,141	02/29/2000	O'Connor, et al.	
NEAL		US- 6,064,998	05/16/2000	Zabloudil, et al.	
MEN		US- 6,067,537	05/23/2000	O'Connor, et al.	
MBAL		US- 6,067,538	05/23/2000	Zorba, et al.	
MPAL		US- 6,073,127	06/06/2000	Lannert, et al.	
MISAFT		US- 6,085,184	07/04/2000	Bertrand, et al.	

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Examiner Initials*	T	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines, Where Relevant			
	Cite No. ¹	Country Code ³ - Number ⁴ - Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T⁴		
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¹ Applicant's unique citation designation number (optional) . ² See Kinds Codes of USPTO Patent Documents at www.usgto.gov or MPEP 901.04.
³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)

Approving use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademain office: U.S. DEPARTMENT OF COMMERCE

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FORMATION DISCLOSURE TATEMENT BY APPLICANT

Application Number: No 1018, 062

Filing Dat: 05/05/2000 First Named Inventor: Beams

Group Art Unit: # 212 Examiner Name: #

Attorney Docket Number: 05222.00183

(Use as many sheets as necessary)

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
NEAH	_	"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995	
HEM		"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63	
AM/	1	*Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment,* Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994	
要		"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995	
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MAL	ĺ	"The Lisp Tutor," Byte, pp. 159-75, Apr. 1985	
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MER		Interactive Multimedia Distance Learning (IMDL): The Prototype of the Virtual Classroom, 1994.	
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Examiner Signature	MULLIV D-	Date	5/7	105
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RMATION DISCLOSURE EMENT BY APPLICANT

Application Number: # P/0/8,062

Filing Date: 05/05/2000 First Named Inventor: Beams

Group Art Unit: Die 2 (2 (Examiner Name: Die 14 (HOCM) S Attorney Docket Number: 05222.00183

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			U.S. PATENT	DOCUMENTS		
Examiner	Cite Document Number		Publication Date	Name of Patentee or Applicant of	Pages, Columns, Lines, Where Relevan	
initials *	No.	Number - Kind Code ² (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear	
MEH		US-6,101,489	08/01/2000	Lannert, et al.		
MAK		US- 6,125,358	09/26/2000	Hubbell, et al.		
MEAL	ł	US- 6,134,539	10/17/2000	O'Connor, et al.		
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	Cite No. Country Code ⁴ - Number ⁴ - Kind Code ⁶ (# know		Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	ಗ್
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: AE/O/O18, 062

Filing Dat: 05/05/2000
First Named Inventor: Beams
Group Art Unit: 0/6 2/2/

Group Art Unit: Ma 2/2/ Examiner Name: Mr HOMFES Attomey Docket Number: 05222.00183

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Sheet 10 of 19

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
MEA		*Conducting and Supporting a Goal-Based Scenario Learning Environment,* Educational Technology, NovDec. 1994	
MAH	<u> </u>	"Interface design issue for advicing giving expert systems", Comm. Of the ACM, vol 30, no. 1, pp14-31	
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Application Number: 45 10/0/8, 062

Filing Date: 05/05/2000

First Named Inventor: Beams

Group Art Unit: new 2/2/ Examiner Name: new M: HOCMES Attorney Docket Number: 05222.00183

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Ham		Computer Dictionary, 1997, pp. 264, 276, 383, 446, 462, 507.	
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ORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: # 10/0/8/062

Filing Dat: 05/05/2000 First Named Inventor: Beams

Group Art Unit: pla 2 2 2 Examiner Name: rue Mr + HOC Attorney Docket Number: 05222.00183

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MAH	*Engines for Education* URL: http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html; viewed Feb. 15, 1999.	
NA	*FinPlan System* at www.rriai.org.ru/FinPlan/	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : Na. 10/018, 062

Filing Date: 05/05/2000 First Named Inventor: Beams

Group Art Unit: nter 2/2/ Examiner Name: nter M, HO (M/E S Attorney Docket Number: 05222.00183

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Sheet 13 of 19

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MEN	Ì	"A Fuzzy Logic-Based Intelligent Tutoring System," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.	
MENY	,	"The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997	
MATTH		*A Browser-Based System to Support & Deliver DE,* 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 1, Nov. 4-7, 1998	
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Examiner Signature	Millelle	NB-KK	Date Considered	171	05
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REFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 10/0/8,062

Filing Dat: 05/05/2000 First Named Inventor: Beams

Group Art Unit: new 2/2/ Examiner Name: new M: NFO(NES) Attorney Docket Number: 05222.00183

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	MASH		*Eight Goal-Based Scenario Tools*, Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, January 1996, pp. 1-37					
	HAIM		*A Role for AI in Education: Using Technology to Reshape Education*, Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelleigence in Education, Winter 1990, January 1990, pp. 1-24 and 2 pgs. of references					
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